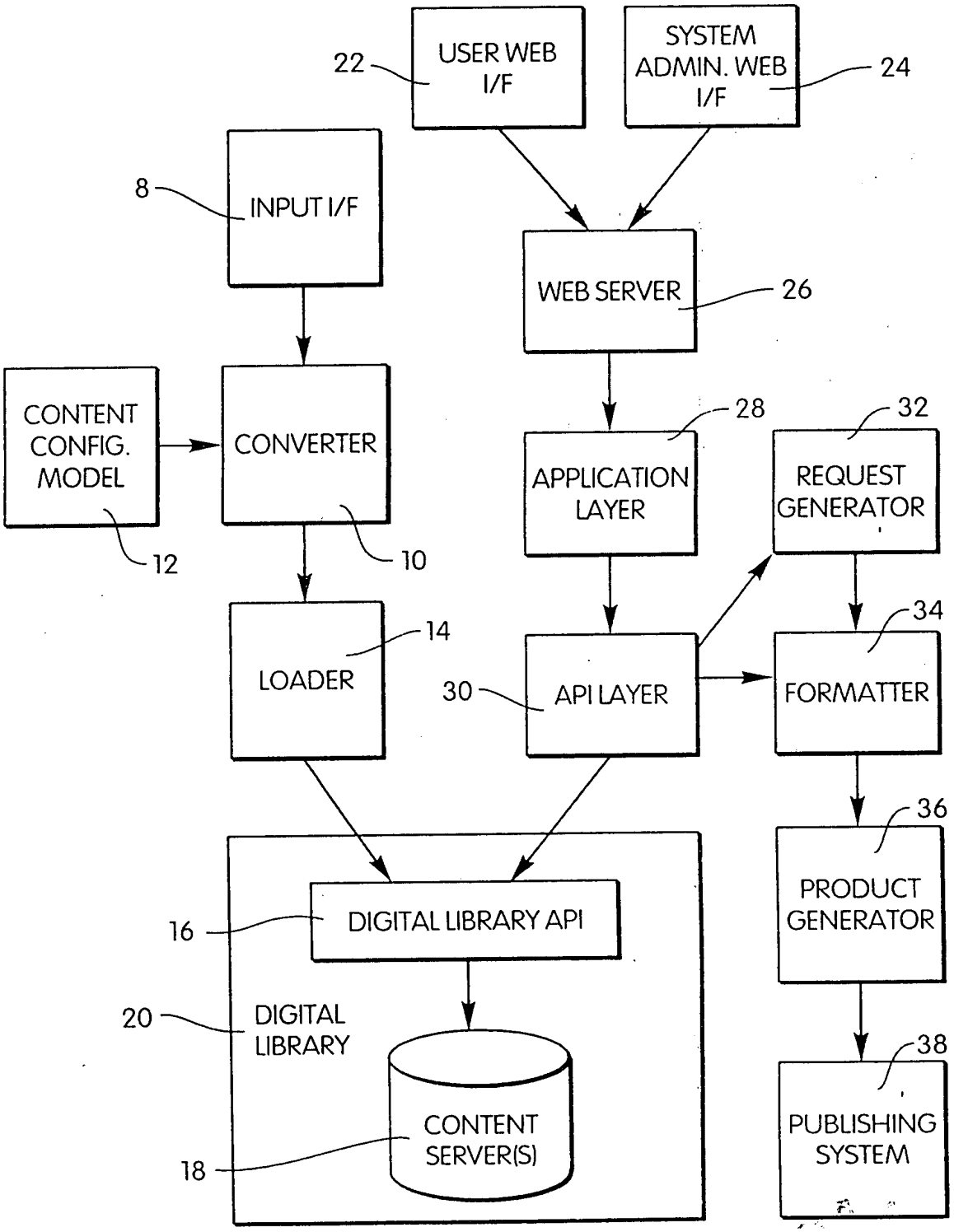
USER WEB I/F
22
SYSTEM ADMIN. WEB I/F
24
INPUT I/F
8
WEB SERVER
26
CONTENT CONFIG. MODEL
CONVERTER
12
10
APPLICATION LAYER
28
REQUEST GENERATOR
32
LOADER
14
API LAYER
30
FORMATTER
34
DIGITAL LIBRARY API
16
PRODUCT GENERATOR
36
DIGITAL LIBRARY
20
CONTENT SERVER(S)
18
PUBLISHING SYSTEM
38

FIG. 1

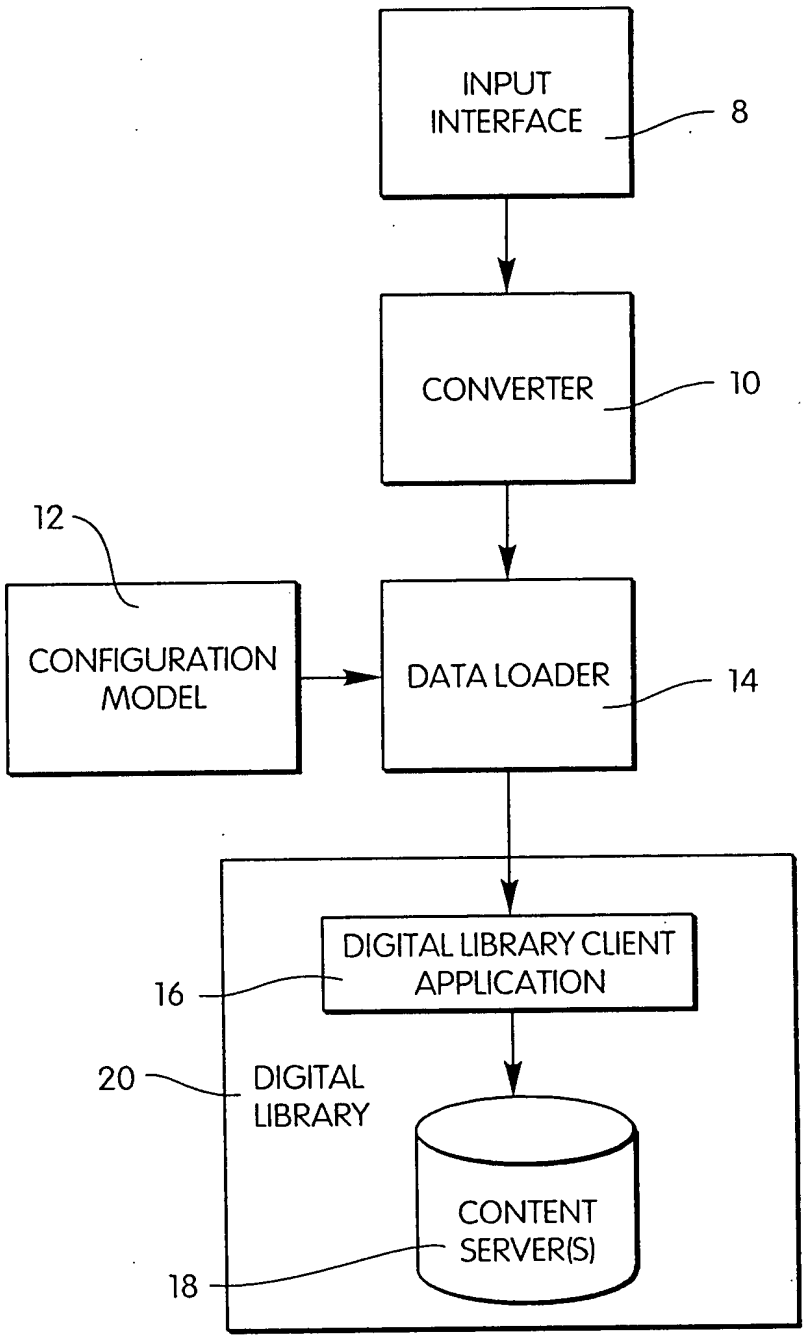
INPUT INTERFACE
8
CONVERTER
10
12
CONFIGURATION MODEL
DATA LOADER
14
DIGITAL LIBRARY CLIENT APPLICATION
16
20
DIGITAL LIBRARY
CONTENT SERVER(S)
18

FIG. 2

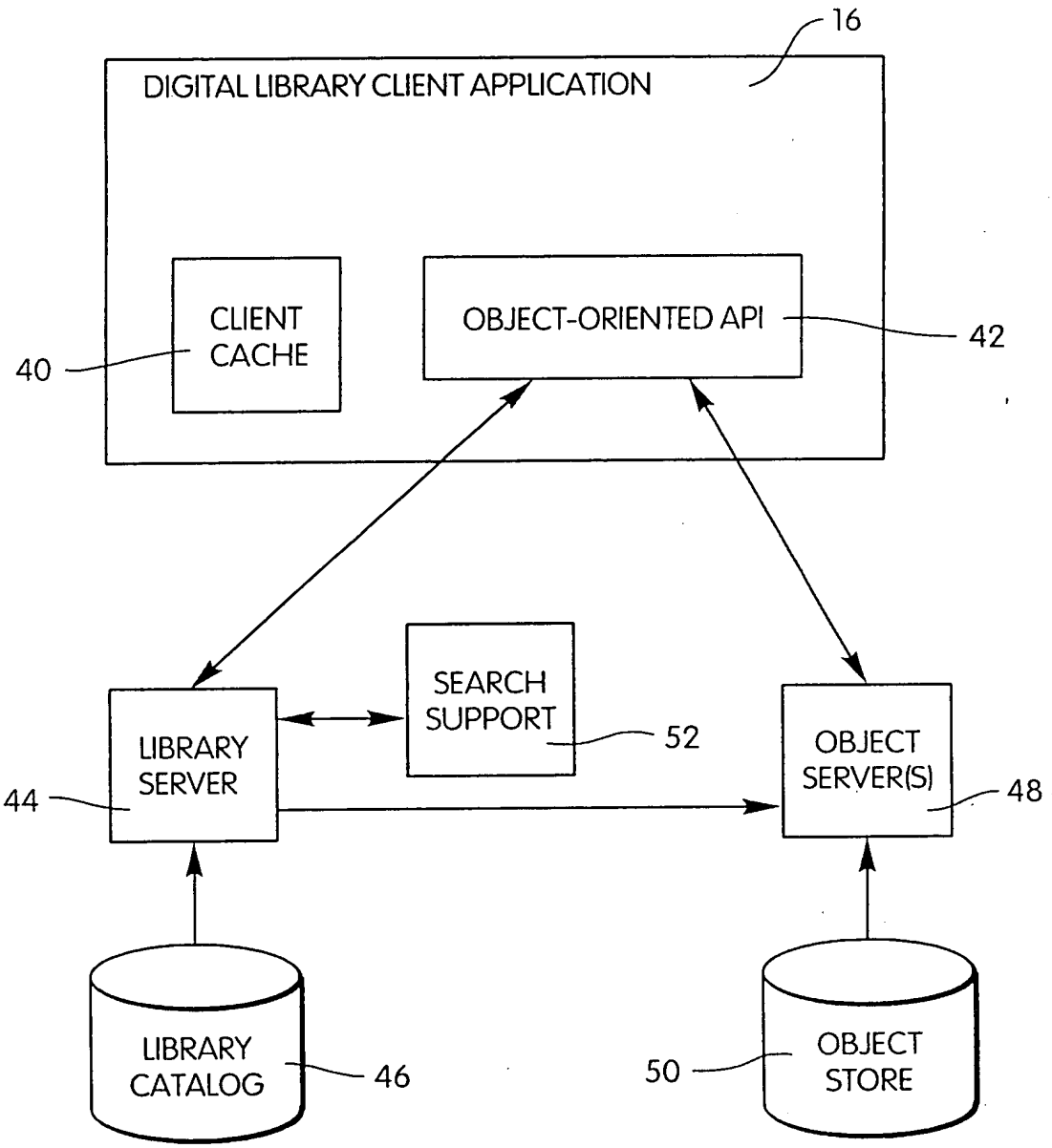
16
DIGITAL LIBRARY CLIENT APPLICATION
CLIENT CACHE
40
OBJECT-ORIENTED API
42
SEARCH SUPPORT
52
LIBRARY SERVER
44
OBJECT SERVER(S)
48
LIBRARY CATALOG
46
50
OBJECT STORE

FIG. 3

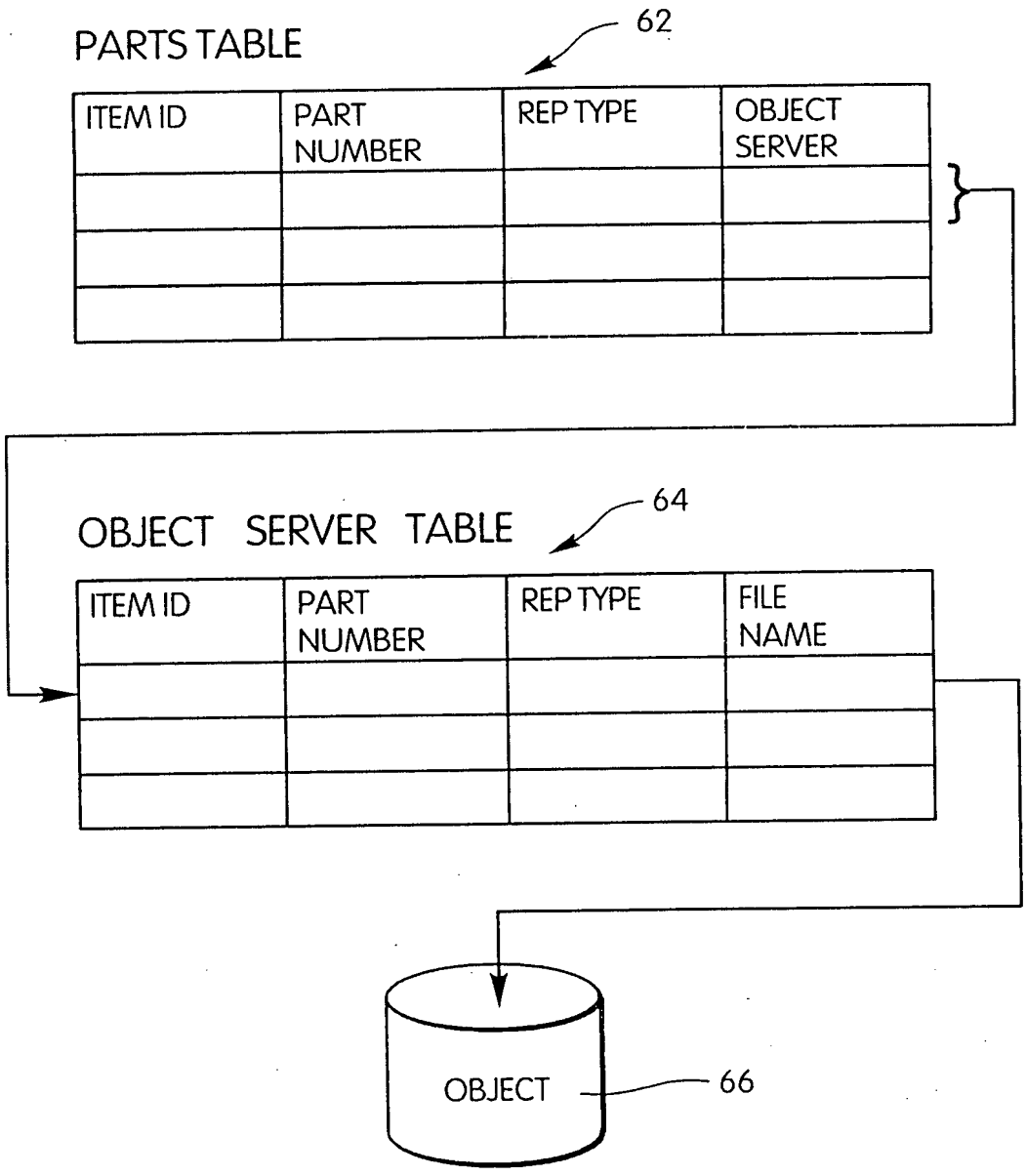
PARTS TABLE
62
ITEM ID
PART NUMBER
REP TYPE
OBJECT SERVER
OBJECT SERVER TABLE
64
ITEM ID
PART NUMBER
REP TYPE
FILE NAME
OBJECT
66

FIG. 4

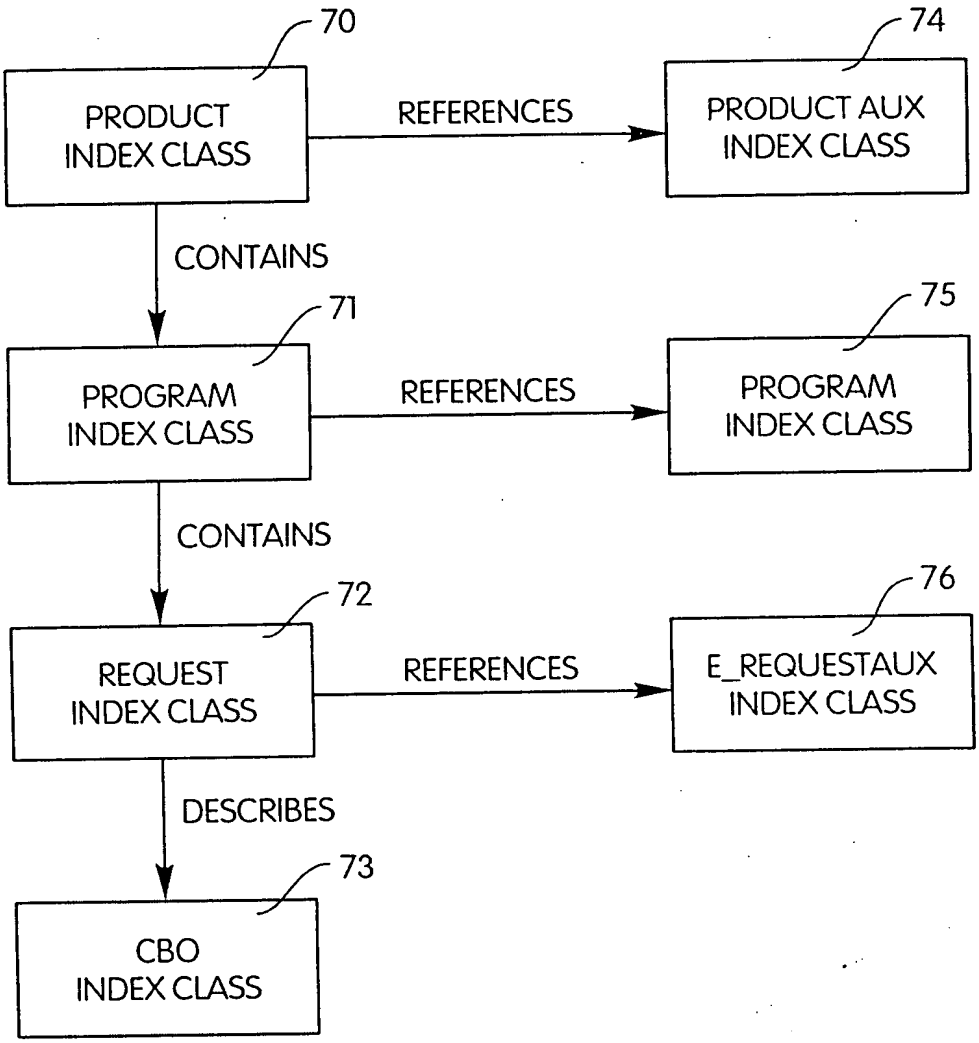
70
PRODUCT INDEX CLASS
REFERENCES
74
PRODUCT AUX INDEX CLASS
CONTAINS
71
PROGRAM INDEX CLASS
REFERENCES
75
PROGRAM INDEX CLASS
CONTAINS
72
REQUEST INDEX CLASS
REFERENCES
76
E_REQUESTAUX INDEX CLASS
DESCRIBES
73
CBO INDEX CLASS

FIG. 5

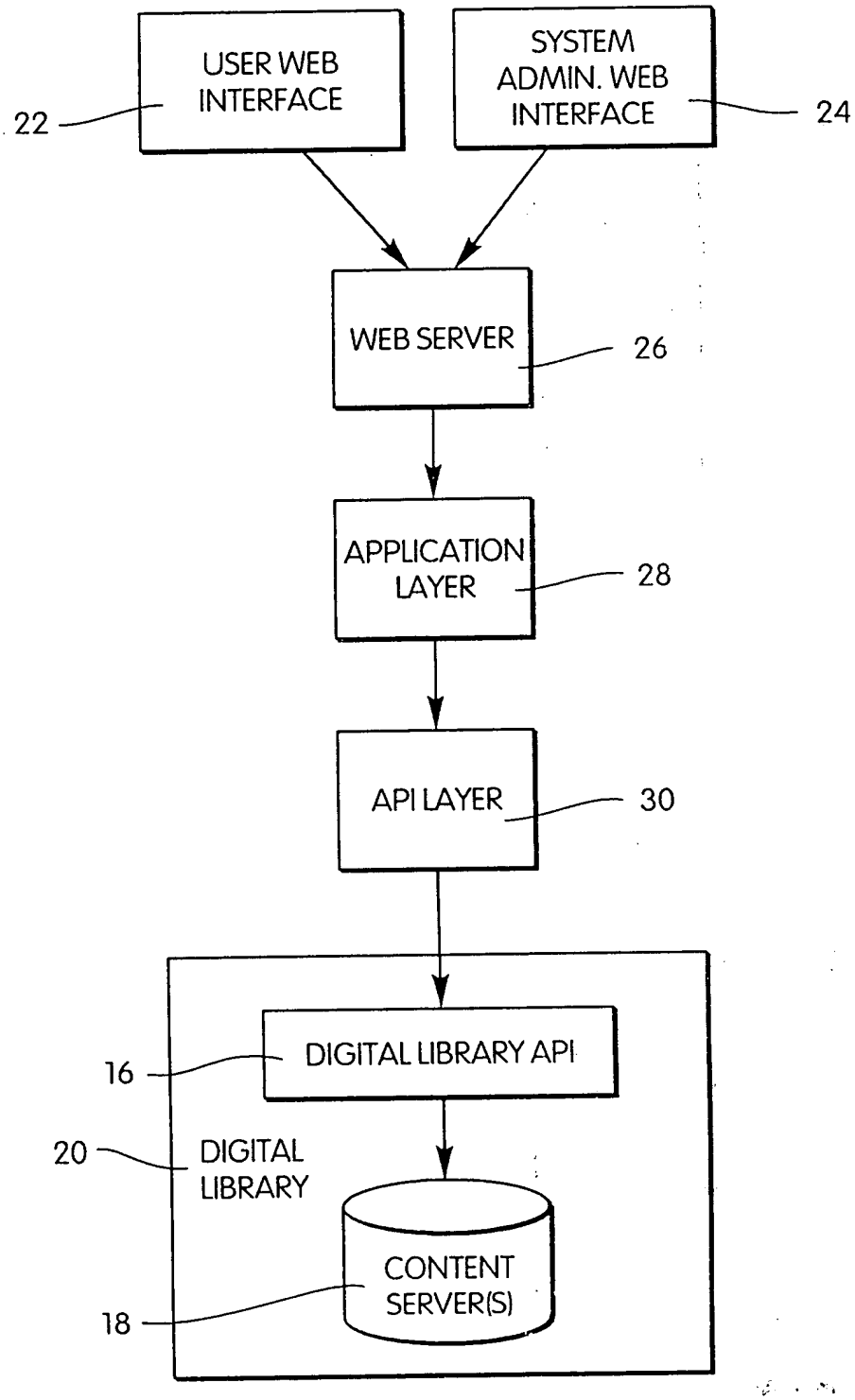
USER WEB INTERFACE
22
SYSTEM ADMIN. WEB INTERFACE
24
WEB SERVER
26
APPLICATION LAYER
28
API LAYER
30
DIGITAL LIBRARY API
16
20
DIGITAL LIBRARY
CONTENT SERVER(S)
18

FIG. 6

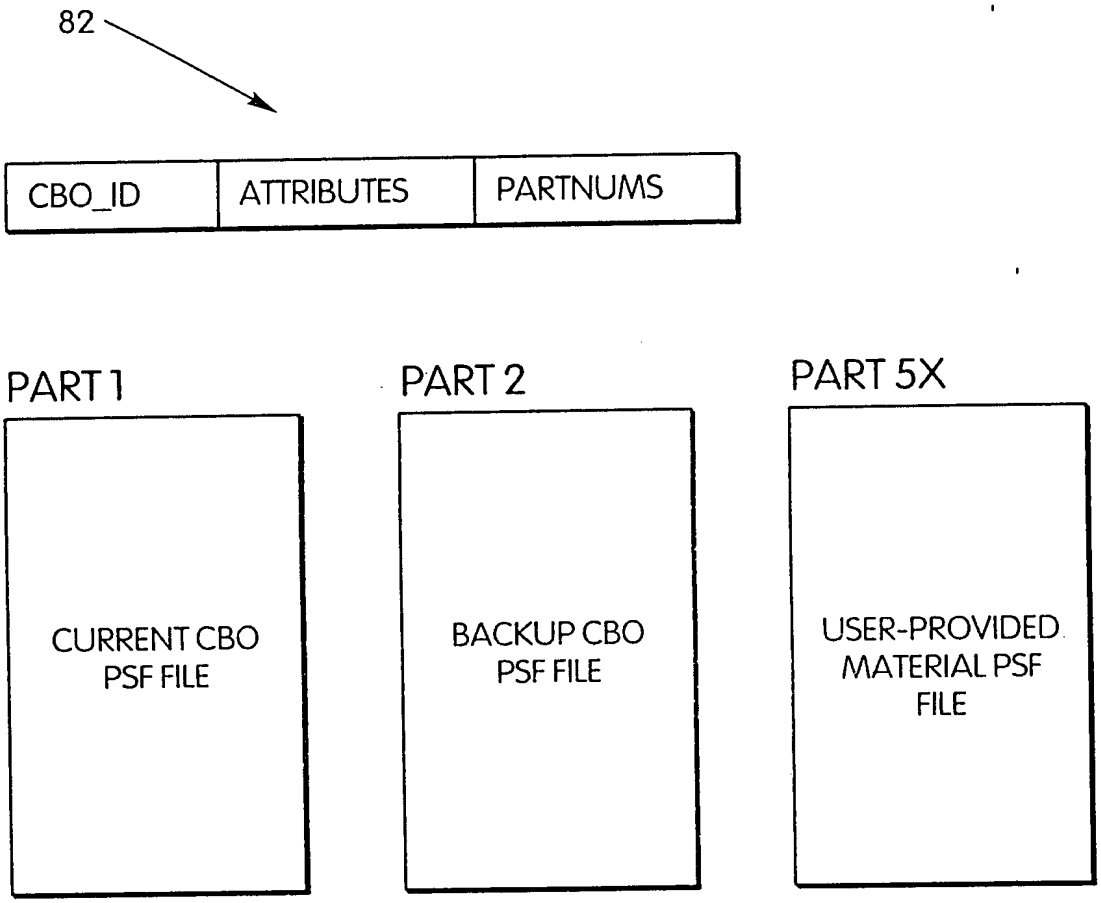
82
CBO_ID
ATTRIBUTES
PARTNUMS
PART 1
CURRENT CBO PSF FILE
PART 2
BACKUP CBO PSF FILE
PART 5X
USER-PROVIDED MATERIAL PSF FILE

FIG. 7

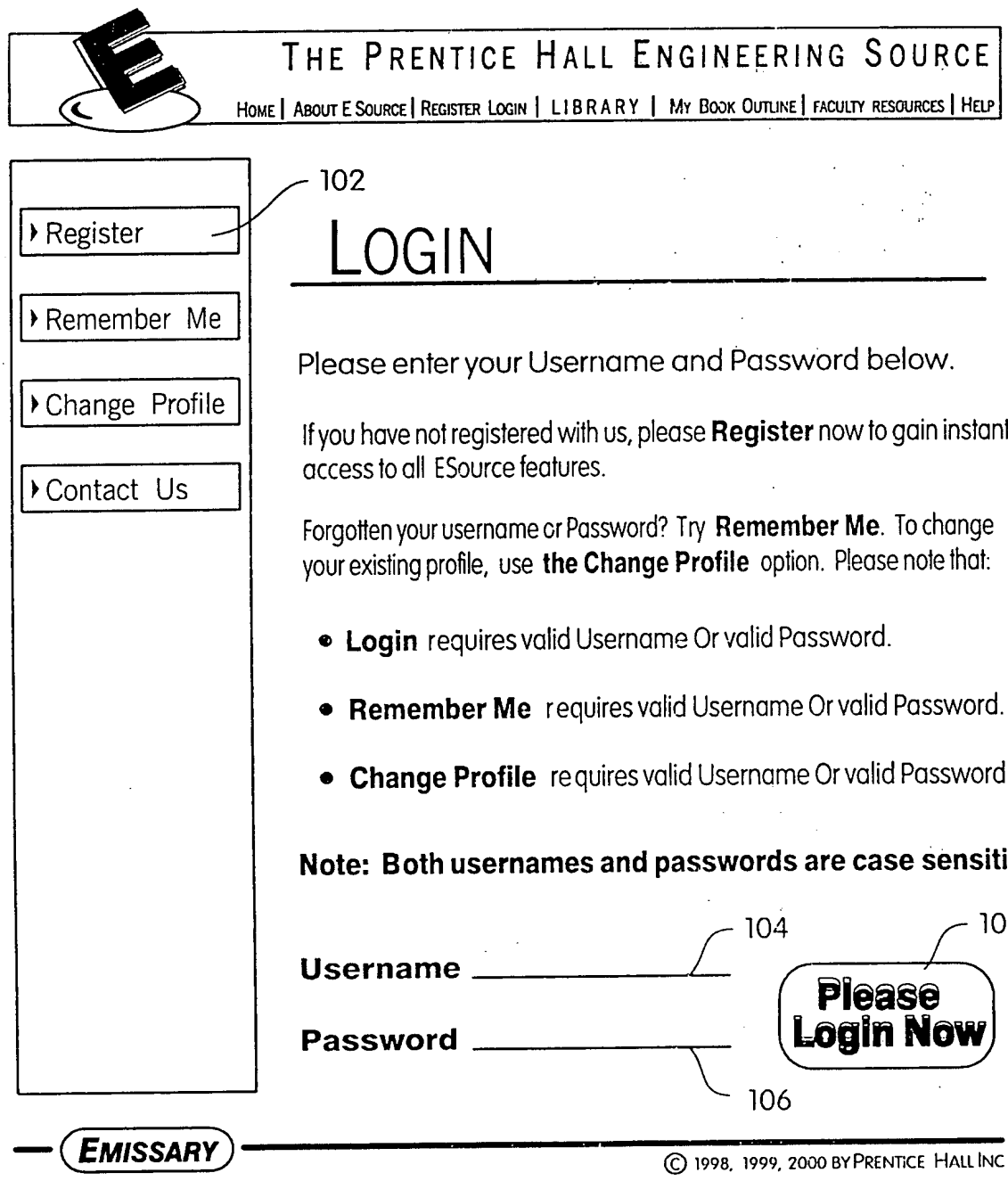
THE PRENTICE HALL ENGINEERING SOURCE
HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP
Register
Remember Me
Change Profile
Contact Us
102
LOGIN
Please enter your Username and Password below.
If you have not registered with us, please Register now to gain instant access to all ESource features.
Forgotten your username or Password? Try Remember Me. To change your existing profile, use the Change Profile option. Please note that:
• Login requires valid Username Or valid Password.
• Remember Me requires valid Username Or valid Password.
• Change Profile requires valid Username Or valid Password.
Note: Both usernames and passwords are case sensitive
104
108
Username
Password
Please Login Now
106
EMISSARY
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FIG. 8A

THE PRENTICE HALL ENGINEERING SOURCE

HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP

Contact Us

REGISTER

Registration, Page 3 of 3

Please provide some additional information about yourself, The asterisk symbol (*) ind entifies required entries

* Username
* University ENTER YOUR UNIVERSITY HERE
* Department
* Email Address

Your Email address is important. All future communications will rely on your Email address, including our ability to send you information on your custom products and user profile.

Title
* First name
* Last name
* Address Line 1
* Address Line 2
* Address Line 3
* City
* State/Province Please Select
* Zip/Postal Code 95141
* Country United States
Phone

In order to assist you in remembering your profile in the future please provide us with a Secret Word Type (description or hint) and a Secret Word. You will be able to see this category in the future by providing your email address or Username.

* Secret Word Type

For example : Mothers Maiden Name, City of Birth

* Secret Word
* Secret Word (Verify)

Continue 110

FIG. 8B

THE PRENTICE HALL ENGINEERING SOURCE

HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP

Contact Us

REGISTER

Thank you for Registering

We have received your registration information and will allow you to access ESource with Guess Access. Please print this page for your reference. Your Profile is as follows:

Username: Ingridmf
Password: Guest

E-mail: ingridf@us.ibm.com

Name: Ingrid Foerster
University: ingridf@us.ibm.com
Department: J46

Address:
555 Bailey Ave.
Santa Teresa, CA 95141
United States

Phone:

Secret Word Type: Pet name
Secret Word: *****

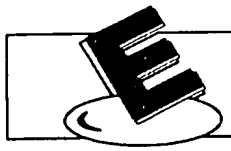
You now will be able to view, search, select, and build custom publications. Once your registration is validated by Prentice Hall you will automatically receive a Full Access password. Full Access is necessary to receive an ISBN to fulfill an order for any book you build. You may submit an order with Prentice Hall before you receive Full Access, but we will need to validate your registration before sending you an ISBN for your custom publication.

To begin using Esource please login with your new Username and Password. Please contact your Prentice Hall Representative if you experience any difficulty.

Please Login Now

112

FIG. 8C



THE PRENTICE HALL ENGINEERING SOURCE

HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP

QUICK HELP

WELCOME

Welcome Ms. Ingrid Foerster — 111

University	Santa Teresa Labs
Department	J46
Access Level	**Guest Access** This level allows you to create custom products and place order requests.

Your Custom Book Outlines — 113

	My Custom Book Title	Last Date	Status	Request ID
	My New ESource Book created on 12/20/1999 at 16:43:17	12/20/1999	Active	N/A

To create new Custom Book Outline click on the red "CBO" button here CBO — 118

To start building your online, click on Library to select ESource content for your custom book

Users who are returning to work on a active outlines should select their outlines from the list above.

Need more help? Click here for a quick How To, or go to Help for more extensive information

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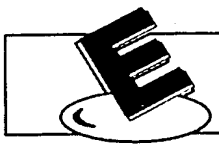
FIG. 9A



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HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP

QUICK HELP

WELCOME

Welcome Homeboy Flash Gordon — 111	
University	Approaching
Department	Body Building
Access Level	**Full Access** This level allows you to create custom products and place order requests.

Your Custom Book Outlines — 113

My Custom Book Title		Last TS Date	Appr. Status	Request ID
116	New Custom Book	07/27/1999	Rejected	ESOU001051
CBO	Boys don't cry	10/28/2000	Submitted	ESOU001057
CBO	What do you mean?	09/02/1999	Completed	ESOU002051
CBO	Flash, I love you	09/02/1999	Completed	ESOU001058
CBO	He'd save everyone one of us	08/19/1999	Approved	ESOU002009
CBO	12 hours to save the earth	09/23/1999	Completed	ESOU002373
CBO	Holy Smokes Bateman	07/23/1999	Active	N/A
CBO	A Really Really Really Long Long Long Long Long Long Long Long Long Long Long Long Long Long Long Long Long Long	07/23/1999	Active	N/A

114

115

CBO — 118

FIG. 9B

QUICK HELP

View My Book

View Book

Add Your Content (IPM) to:

Add Content

Move Checked Items to:

Move Items

Remove Checked Items

Remove

Undo Last Action

Undo Last

Clear My Book

Clear Book

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Submit Request

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CBO — 119

This is Your Custom Book Outline

Book Title
My New ESource Book created on 12/20/1999 at 18:47:54 — 128

Contents VOLUME 1	Price (132)	Pgs. (134)
Table of Contents	0.60	6
Preface	0.90	9
Index	0.50	5
TOTAL	**$ 2.00**	**20.0**

130

* Approximate

Type the name of a chapter you would like to add to this book and press the "Add" button.

Add new chapter with this title — 121

123 — Add — 124

Select either book or chapter from the drop down list, type a new name in the text box and press the "Change" button to change the title.

Change Book ▼ **title to** Internet Basics — Add — 126

125 — 127 — 129

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FIG. 10A

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QUICK HELP

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Your Book Snapshot Sections: 4 | Pages: 20.0 | Net Price: US $ 2.00

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CBO

View My Book

View Book

Add Your Content (IPM) to:

Add Content

Move Checked Items to:

Move Items

Remove Checked Items

Remove

Undo Last Action

Undo Last

Clear My Book

Clear Book

Submit My Request with Prentice Hall

Submit Request

This is Your Custom Book Outline

Book Title
Internet Basics } 128

Contents	Price	Pgs.
VOLUME 1		
Table of Contents	0.60	6
Preface	0.90	9
Index	0.50	5
TOTAL	**$ 2.00**	**20.0**

*** Approximate**

Type the name of a chapter you would like to add to this book and press the "Add" button.

Add new chapter with this title

New Chapter Title

Add

Select either book or chapter from the drop down list, type a new name in the text box and press the "Change" button to change the title.

Change Book ▼ **title to**

Change

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FIG. 10B

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HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP

- Browse Library
- Search Contents
- Ready Made Books

240 BROWSE LIBRARY

Select a title below to view its table of contents and start adding its contents to your book. You may also search for specific topics by keyword using our search option. Also, preview ready made custom books for examples and ideas.

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Mark N. Horenstein
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Charles B. Fleddermann
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Mark Dix, Paul Riley
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Introduction to C++,
Delores M. Etter
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David I. Schwartz
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Introduction to Unix.
David I. Schwartz
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Introduction to the Internet, 138
Scott D. James
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Mark N. Horenstein
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Enginering Success,
Peter Schiavone
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Delores M. Etter
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David C. Kuncicky
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Introduction to MATLAB (R),
Delores M. Etter, David C. Kuncicky
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Ronald W. Larsen
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Introduction to Word,
David C. Kuncicky
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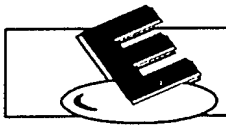
FIG. 11



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HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP

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- Search Contents
- Ready Made Books
- QUICK HELP

ADD Checked Items to:

Add to Book

BROWSE LIBRARY

Your Book Snapshot **Sections: 4 | Pages: 20.0 | Net Price: US $ 2.00**

Use this page both to view content and add content to your custom book. For additional help with using this page, click on the Quick Help button to the left.

Introduction to the Internet

Scott D. James

146

Contents 142

		Price	Pgs.*
☑	**CHAPTER 1:** Introduction to the Internet		
☐	1.1 History	0.14	1.4
☐	1.2 Internet Culture	0.06	0.6
☐	1.3 Internet Netiquette	0.16	1.6
☐	1.4 Advantages and Disadvantages of the Internet	0.26	2.6
☐	1.5 Technical Issues	0.25	2.5
☐	**CHAPTER 2:** E-Mail and Finding Addresses		
☐	**CHAPTER 3:** Mailing Lists and UseNet News		
☐	**CHAPTER 4:** Telnet, FTP, and Locating Files		
☐	**CHAPTER 5:** Gopher and WAIS		
☐	**CHAPTER 6:** The World Wide Web and HTML		
☐	**CHAPTER 7:** Live Communications on the Internet 148		
☐	7.1 The Talk Program	0.11	1.1
☑	7.2 IRC: Internet Relay Chat	0.36	3.6
☑	7.3 The Future of Live Communications	0.54	5.4
☐	**CHAPTER 8:** Java		
☐	**CHAPTER 9:** Computer Security and the Internet		
☐	**CHAPTER 10:** Appendix		

141 145 144 143

*** Approximate**

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FIG. 12

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View Book

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Add Content

Move Checked Items to:

Move Items

Remove Checked Items

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Your Book Snapshot Sections: 4 | Pages: 20.0 | Net Price: US $ 2.00

To select another Custom Book Outline, or to create new Custom Book Outline, click on the red "CBO" button

CBO — 119

This is Your Custom Book Outline

Book Title
Internet Basics

Contents	Price	Pgs.
VOLUME 1		
Table of Contents	0.60	6
Preface	0.90	9
CHAPTER 1: Introduction to the Internet — 146		
Sections/Objectives/Science/Engineering Spotlight: Computer-Integrated Manufacturing } 154	0.16	1.6
1.1 History	0.14	1.4
1.2 Internet Culture	0.06	0.6
1.3 General Netiquette	0.16	1.6
1.4 Advantages and Disadvantages of the Internet	0.26	2.6
1.5 Technical Issues	0.25	2.5
Summary/Key Terms — 154	0.02	0.2
CHAPTER 2: Live Communications on the Internet — 148		
Sections/Objectives/Science/Engineering Spotlight: Barcode Technologies } 154	0.06	0.6
2.1 IRC: Internet Relay Chat	0.36	3.6
2.2 The Future of Live Communications	0.54	5.4
Summary/Key Terms/Problems — 154	0.04	0.4
Index	0.50	.5
TOTAL	**$ 4.05**	**40.5**

* Approximate

FIG. 13

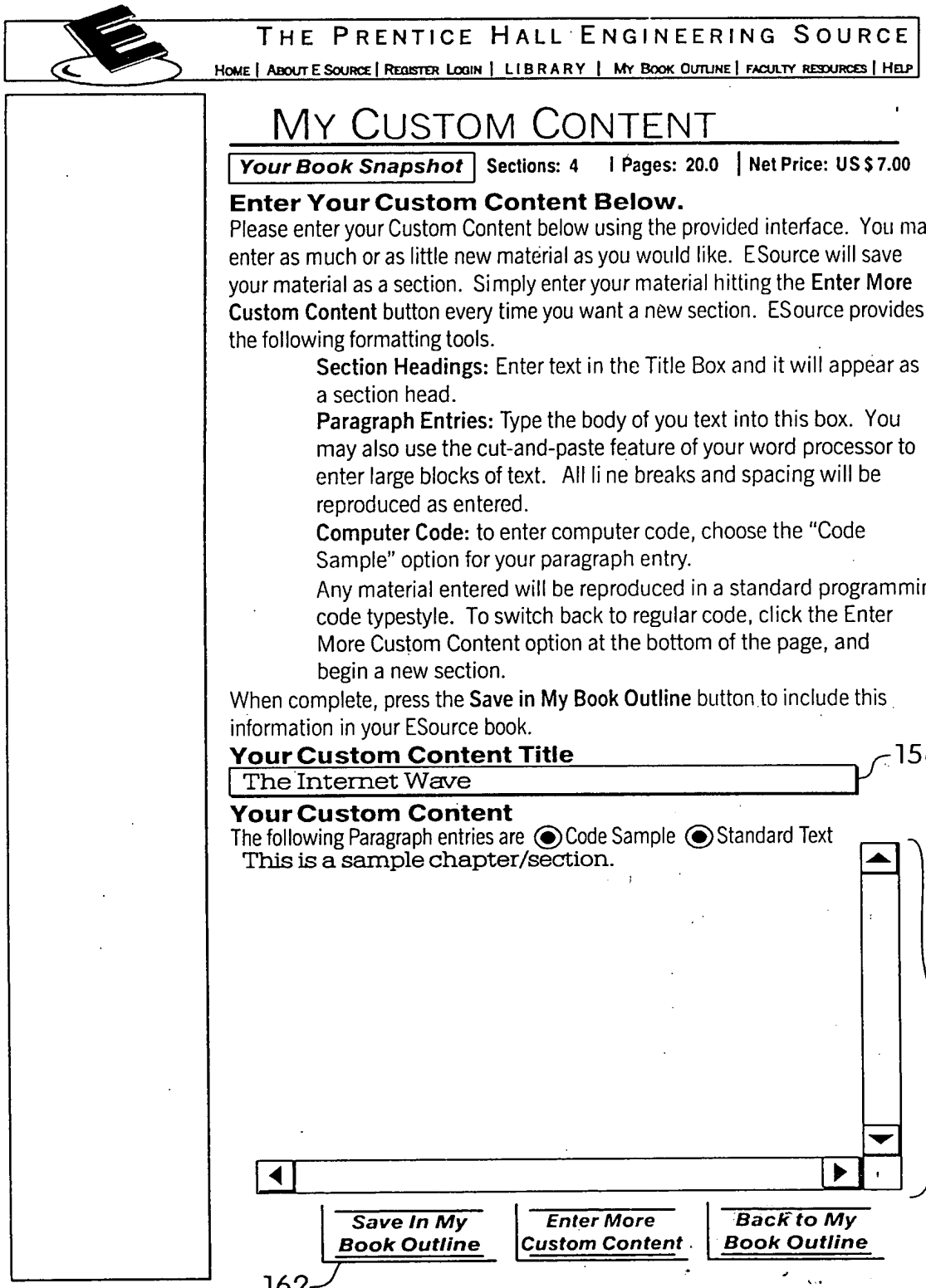
THE PRENTICE HALL ENGINEERING SOURCE
HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP
MY CUSTOM CONTENT
Your Book Snapshot
Sections: 4 | Pages: 20.0 | Net Price: US $ 7.00
Enter Your Custom Content Below.
Please enter your Custom Content below using the provided interface. You may enter as much or as little new material as you would like. ESource will save your material as a section. Simply enter your material hitting the Enter More Custom Content button every time you want a new section. ESource provides the following formatting tools.
Section Headings: Enter text in the Title Box and it will appear as a section head.
Paragraph Entries: Type the body of you text into this box. You may also use the cut-and-paste feature of your word processor to enter large blocks of text. All li ne breaks and spacing will be reproduced as entered.
Computer Code: to enter computer code, choose the "Code Sample" option for your paragraph entry.
Any material entered will be reproduced in a standard programming code typestyle. To switch back to regular code, click the Enter More Custom Content option at the bottom of the page, and begin a new section.
When complete, press the Save in My Book Outline button to include this information in your ESource book.
Your Custom Content Title
The Internet Wave
158
Your Custom Content
The following Paragraph entries are Code Sample Standard Text
This is a sample chapter/section.
160
Save In My Book Outline
Enter More Custom Content
Back to My Book Outline
162

FIG. 14

THE PRENTICE HALL ENGINEERING SOURCE

HOME | ABOUT E SOURCE | REGISTER LOGIN | LIBRARY | MY BOOK OUTLINE | FACULTY RESOURCES | HELP

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View Book

Add Your Content (IPM) to:

Add Content

Move Checked Items to:

Move Items

Remove Checked Items

Remove

Undo Last Action

Undo Last

Clear My Book

Clear Book

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Submit Request

MY BOOK OUTLINE

Your Book Snapshot | Sections: 19 | Pages: 40.5 | Net Price: US $ 9.04

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CBO

This is Your Custom Book Outline

Book Title
Internet Basics

Contents	Price	Pgs.
VOLUME 1		
Table of Contents	0.60	6
Preface	0.90	9
CHAPTER 1: Introduction to the Internet		
Sections/Objectives/Science/Engineering Spotlight: Computer-Integrated Manufacturing	0.16	1.6
1.1 History	0.14	1.4
1.2 Internet Culture	0.06	0.6
1.3 General Netiquette	0.16	1.6
1.4 Advantages and Disadvantages of the Internet	0.26	2.6
1.5 Technical Issues	0.25	2.5
Summary/Key Terms	0.02	0.2
CHAPTER 2: Live Communications on the Internet		
Sections/Objectives/Science/Engineering Spotlight: Barcode Technologies	0.06	0.6
2.1 IRC: Internet Relay Chat	0.36	3.6
2.2 The Future of Live Communications	0.54	5.4
Summary/Key Terms/Problems	0.04	0.4
CHAPTER 3: New Chapter		
Custom Content: The Internet Wave —164	n/a	0.0
Index	0.50	.5
TOTAL	**$ 9.04***	**40.5**

* Approximate

FIG. 15A

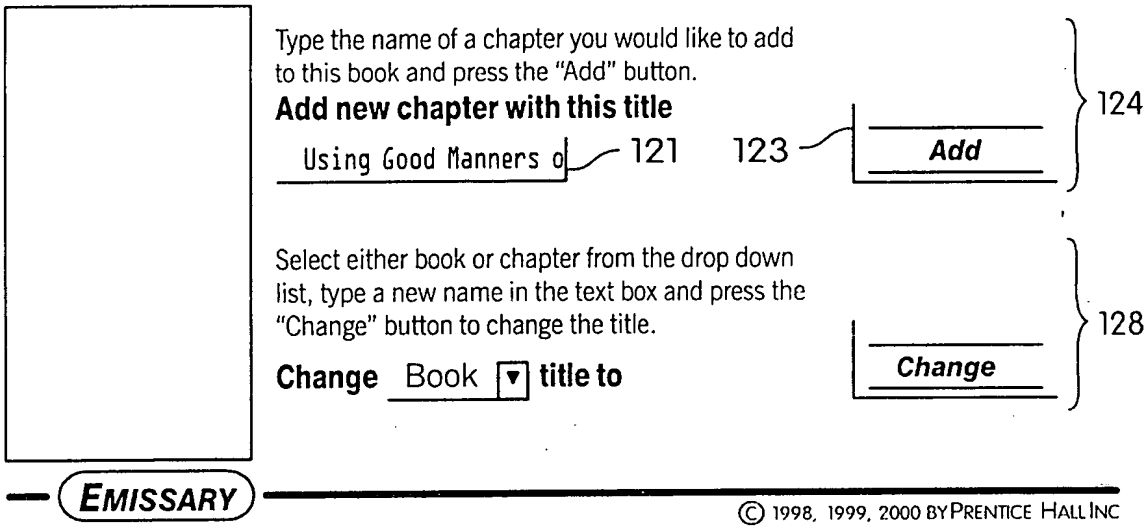
Type the name of a chapter you would like to add to this book and press the "Add" button.
Add new chapter with this title
Using Good Manners o
121
123
Add
124
Select either book or chapter from the drop down list, type a new name in the text box and press the "Change" button to change the title.
Change Book title to
Change
128
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FIG. 15B

THE PRENTICE HALL ENGINEERING SOURCE

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MY BOOK OUTLINE

Your Book Snapshot Sections: 20 | Pages: 40.5 | Net Price: US $ 9.04

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CBO

View My Book

View Book

176

This is Your Custom Book Outline

Book Title

Internet Basics

Add Your Content (IPM) to:

Add Content

Move Checked Items to:

168

Move Items

170

Remove Checked Items

166

Remove

172

Undo Last Action

Undo Last

174

Clear My Book

Clear Book

178

Submit My Request with Prentice Hall

Submit Request

180

Contents	Price	Pgs.
VOLUME 1		
Table of Contents	0.60	6
Preface	0.90	9
CHAPTER 1: Introduction to the Internet		
Sections/Objectives/Science/Engineering Spotlight: Computer-Integrated Manufacturing	0.16	1.6
1.1 History	0.14	1.4
1.2 Internet Culture	0.06	0.6
1.3 General Netiquette	0.16	1.6
1.4 Advantages and Disadvantages of the Internet	0.26	2.6
1.5 Technical Issues	0.25	2.5
Summary/Key Terms	0.02	0.2
CHAPTER 2: Live Communications on the Internet		
Sections/Objectives/Science/Engineering Spotlight: Barcode Technologies	0.06	0.6
2.1 IRC: Internet Relay Chat	0.36	3.6
2.2 The Future of Live Communications	0.54	5.4
Summary/Key Terms/Problems	0.04	0.4
CHAPTER 3: New Chapter		
Custom Content: The Internet Wave	n/a	0.0
CHAPTER 4: Using Good Manners on the Internet		
Index	0.50	.5
TOTAL	**$ 9.04**	**40.5**

165

FIG. 16

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View Book

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Add Content

Move Checked Items to:

Move Items

Remove Checked Items

Remove

Undo Last Action

Undo Last

Clear My Book

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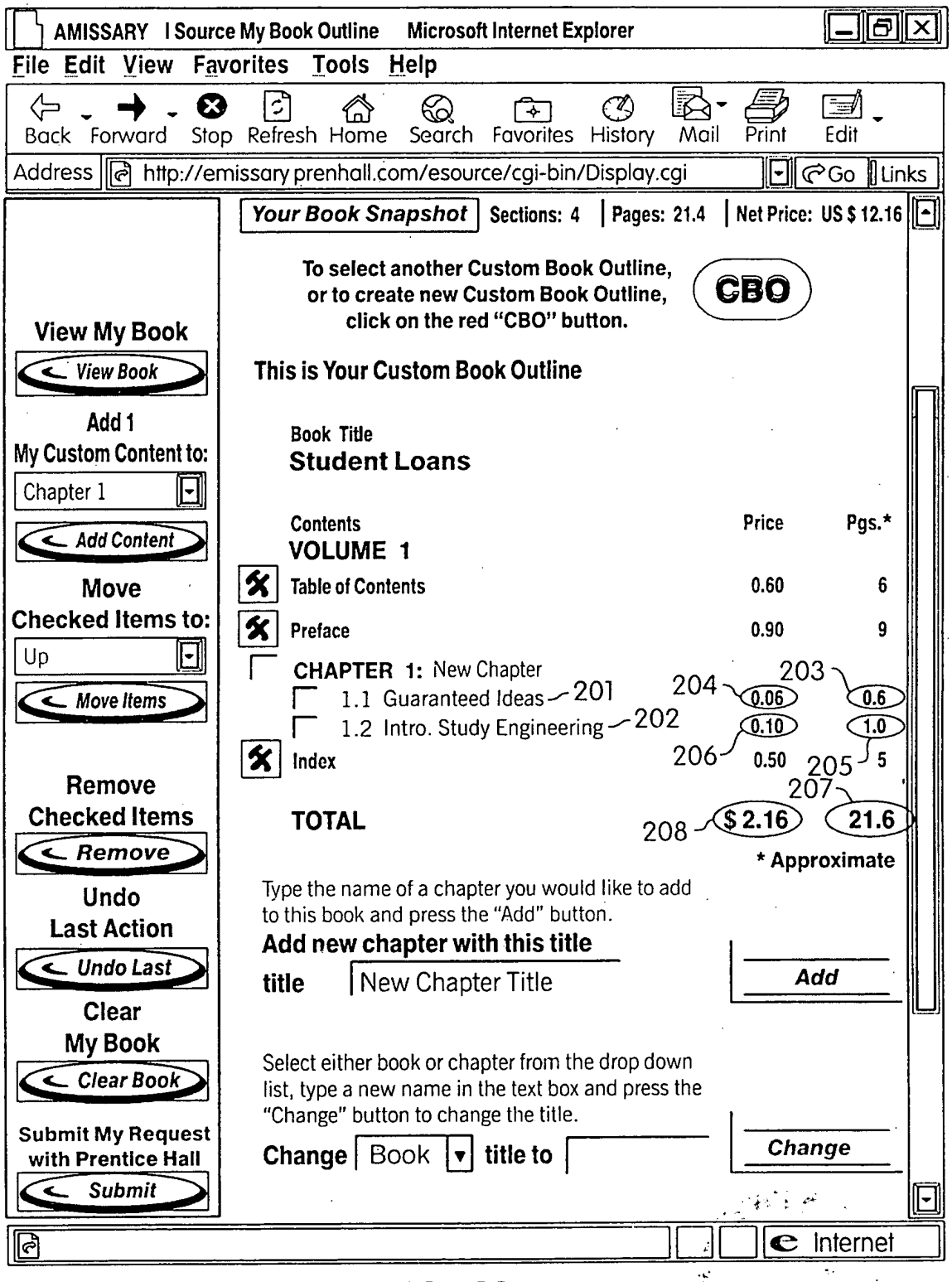
FIG. 18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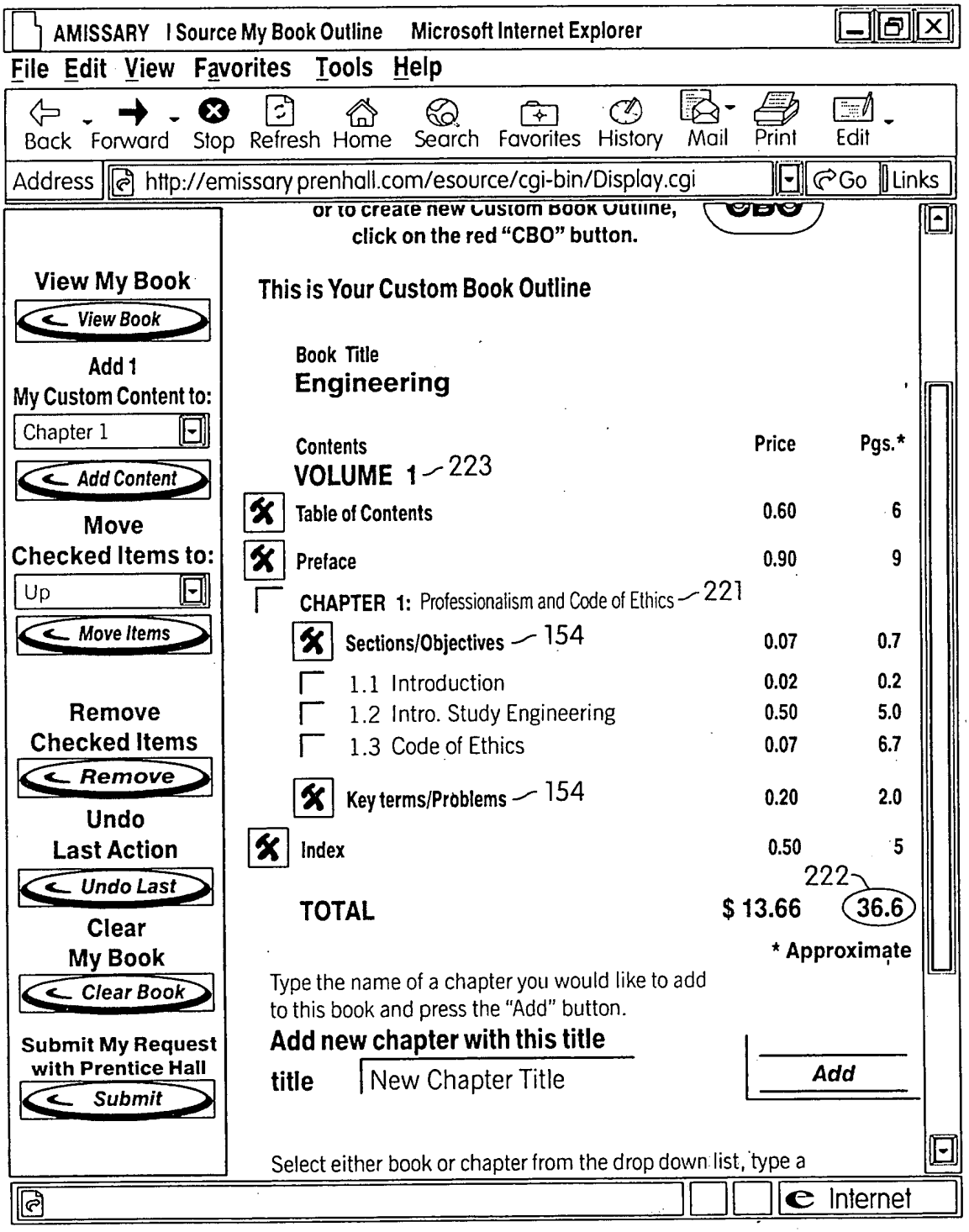
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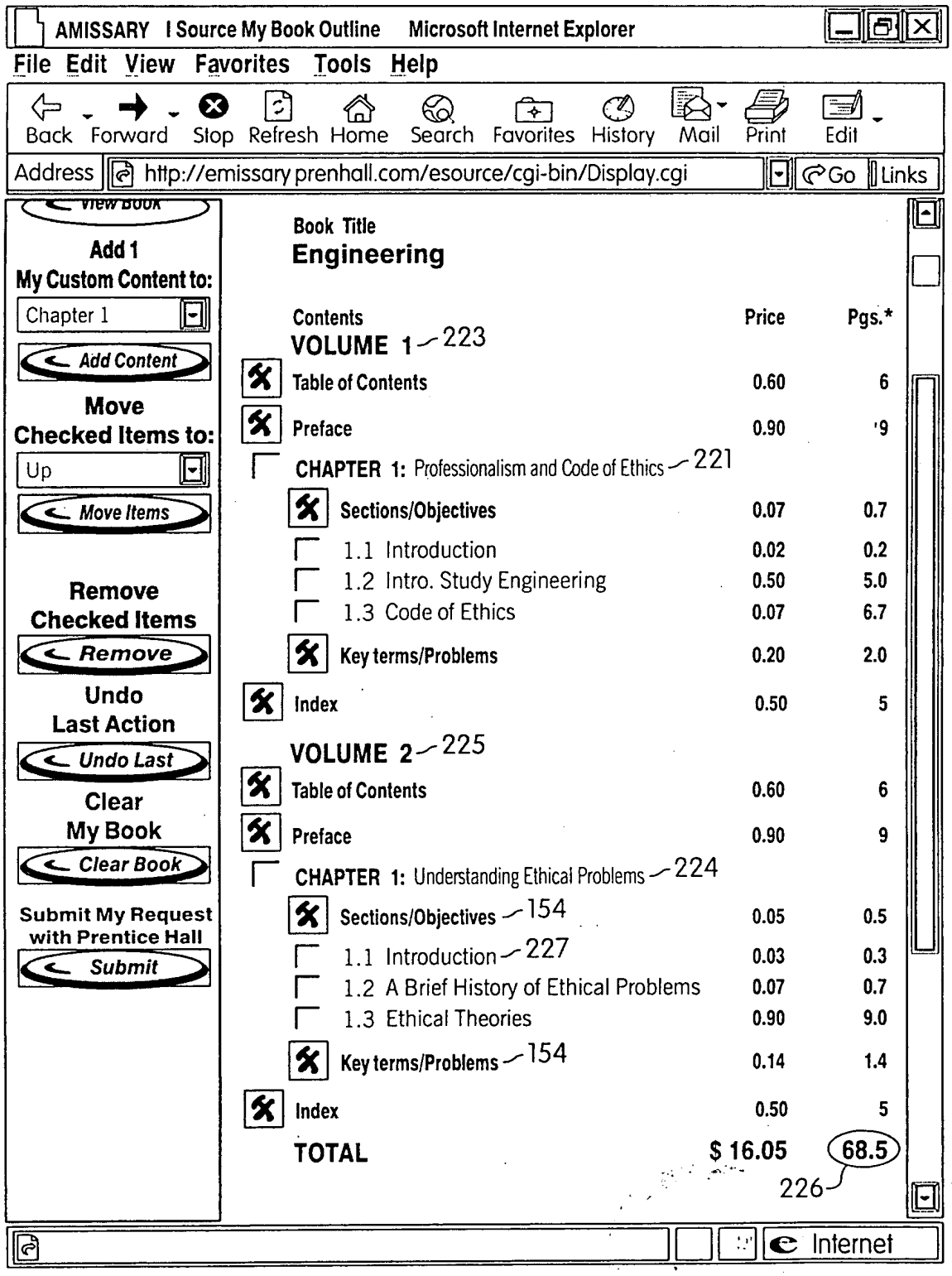
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1.3 Ethical Theories 0.90 9.0
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Index 0.50 5
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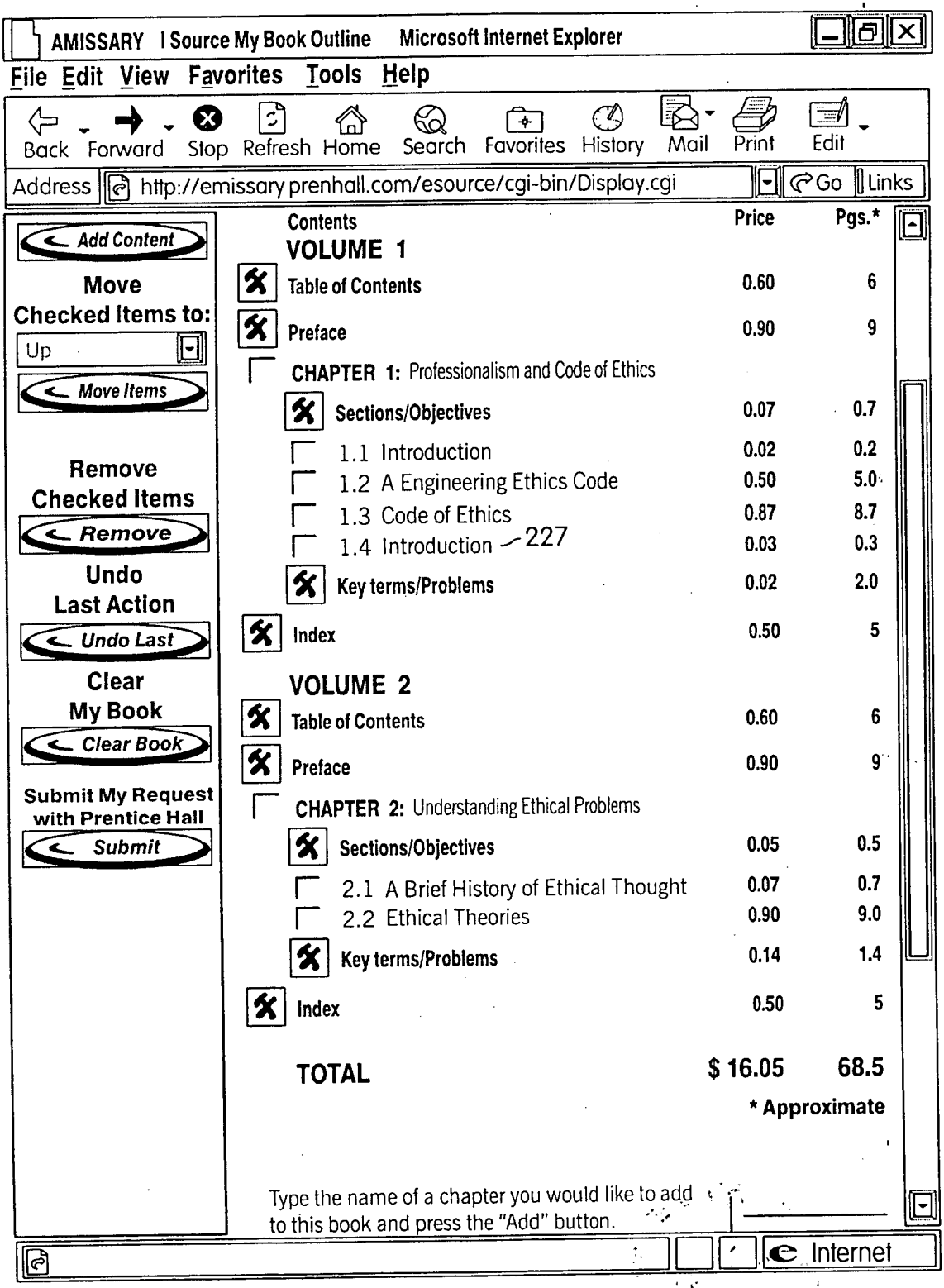
FIG. 20B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2.1 A Brief History of Ethical Thought 0.07 0.7
2.2 Ethical Theories 0.90 9.0
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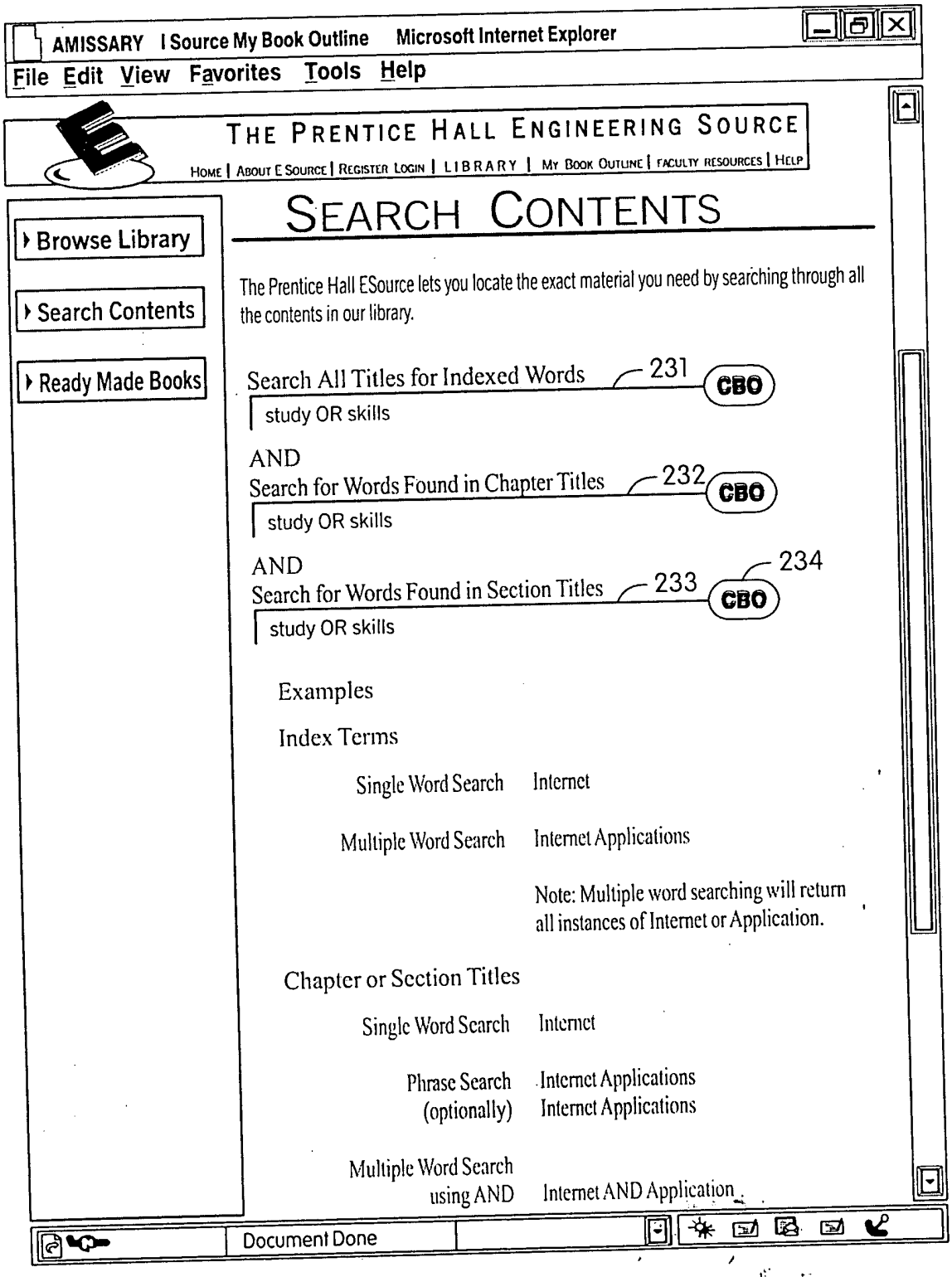
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Phrase Search Internet Applications
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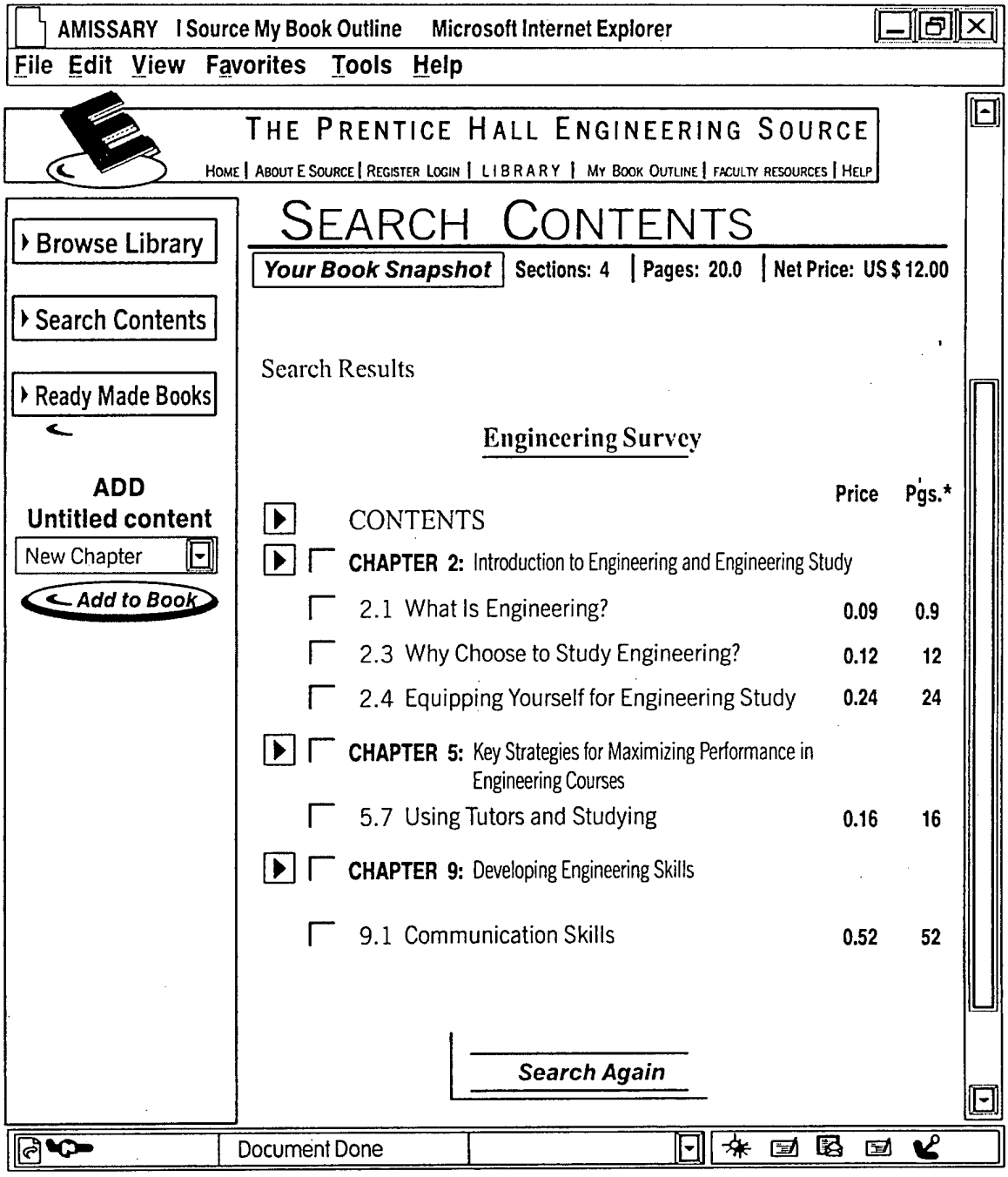
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FIG. 21B

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FIG. 22A

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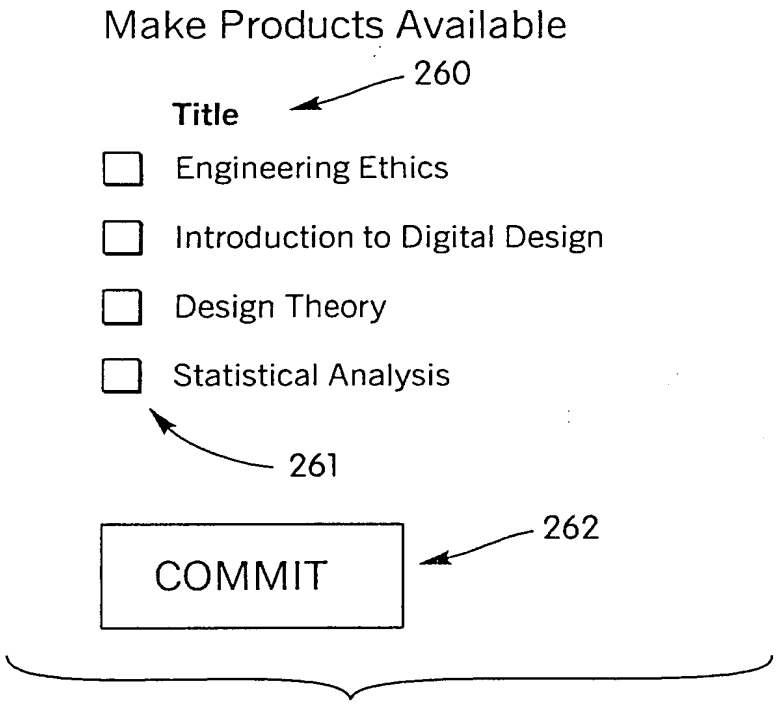

FIG. 22C

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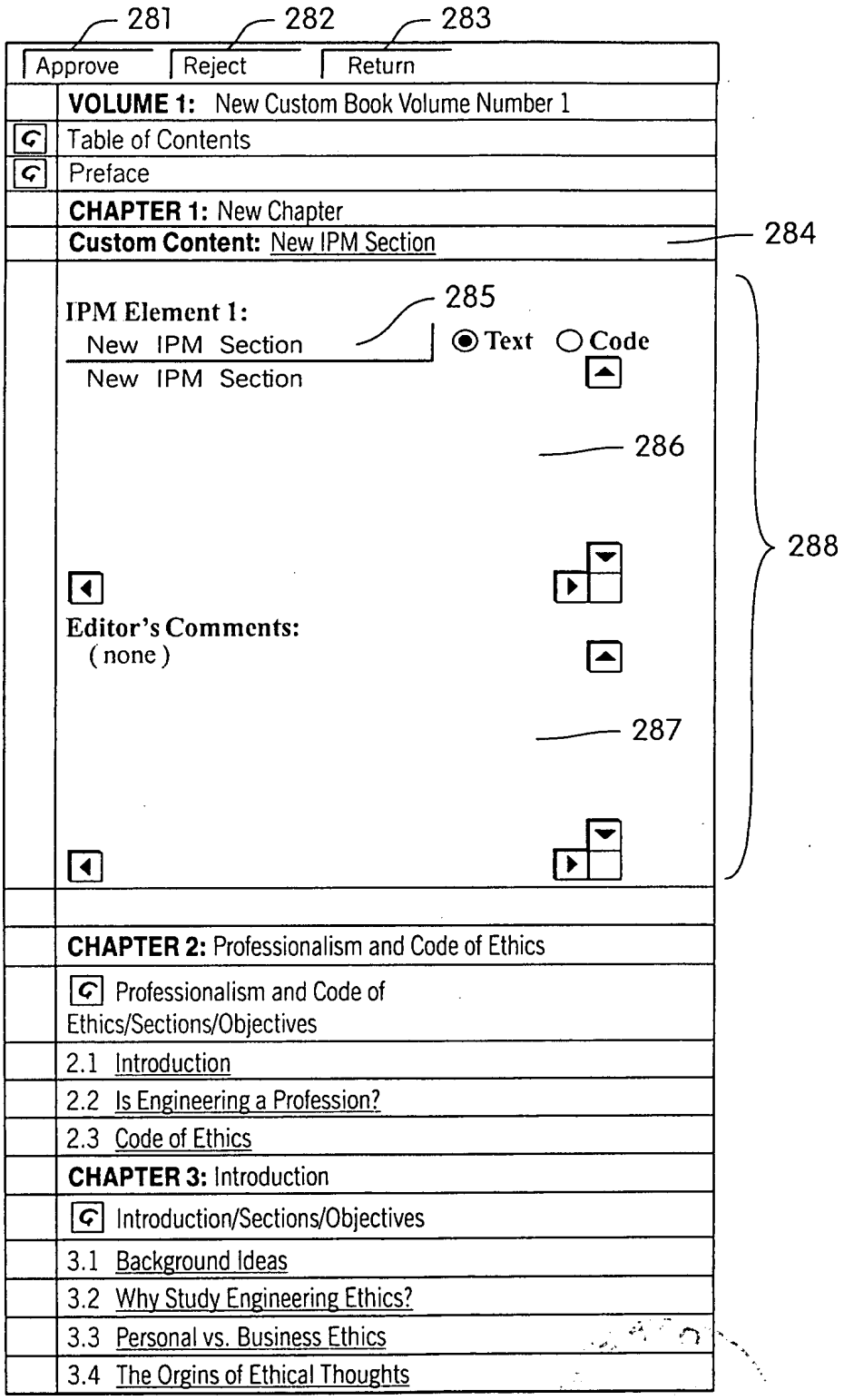
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3.1 Background Ideas
3.2 Why Study Engineering Ethics?
3.3 Personal vs. Business Ethics
3.4 The Orgins of Ethical Thoughts

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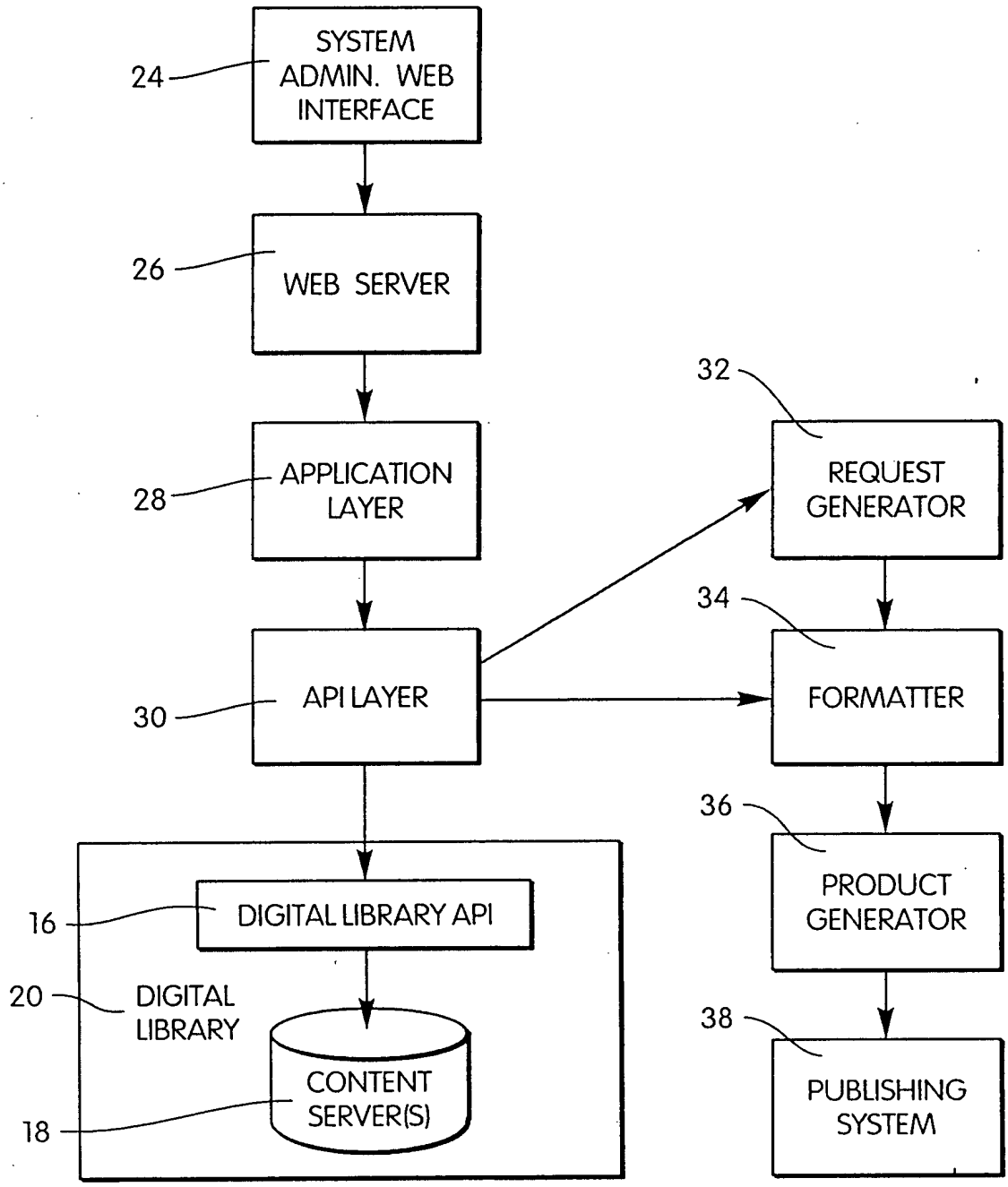
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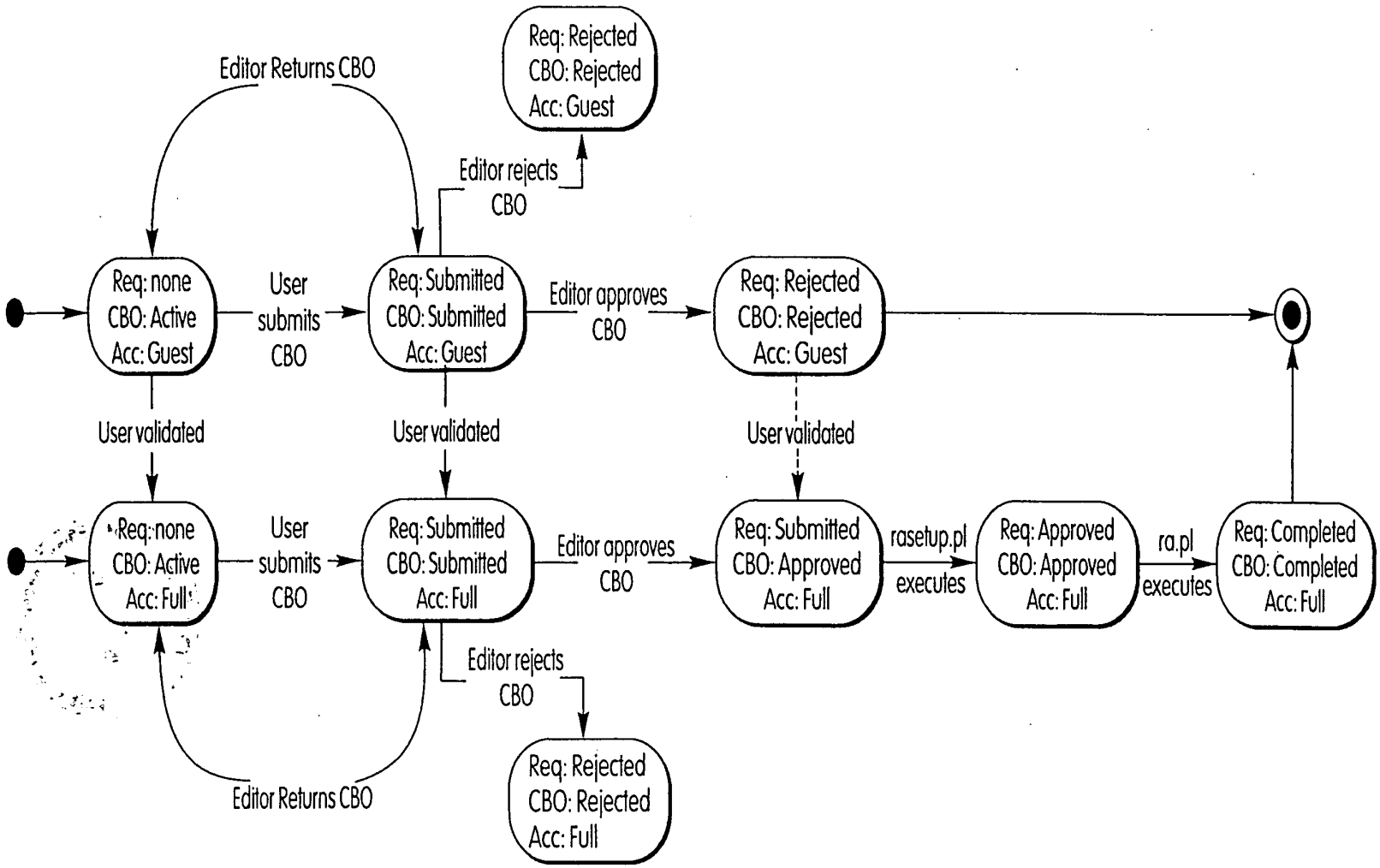
FIG. 23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CBO
Req: Submitted
CBO: Submitted
Acc: Guest
Editor approves
CBO
Req: Rejected
CBO: Rejected
Acc: Guest
User validated
User validated
User validated
Req: none
CBO: Active
Acc: Full
User
submits
CBO
Req: Submitted
CBO: Submitted
Acc: Full
Editor approves
CBO
Req: Submitted
CBO: Approved
Acc: Full
rasetup.pl
executes
Req: Approved
CBO: Approved
Acc: Full
ra.pl
executes
Req: Completed
CBO: Completed
Acc: Full
Editor rejects
CBO
Editor Returns CBO
Req: Rejected
CBO: Rejected
Acc: Full

FIG. 24